

**PRINTER RUSH**  
(PTO ASSISTANCE)

Application : 10/077969 Examiner : Gary GAU : 2681

From : J. Blach Location : IDC FMF FDC Date : 5/4/05

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DOC CODE	DOC DATE	MISCELLANEOUS
<input type="checkbox"/> 1449	_____	<input checked="" type="checkbox"/> Continuing Data
<input type="checkbox"/> IDS	_____	<input type="checkbox"/> Foreign Priority
<input type="checkbox"/> CLM	_____	<input type="checkbox"/> Document Legibility
<input type="checkbox"/> IIFW	_____	<input type="checkbox"/> Fees
<input type="checkbox"/> SRFW	_____	<input type="checkbox"/> Other
<input type="checkbox"/> DRW	_____	
<input type="checkbox"/> OATH	_____	
<input type="checkbox"/> 312	_____	
<input type="checkbox"/> SPEC	_____	

**[RUSH] MESSAGE:**

Please add provisional application nos. 60/208,306, and  
60/195,219 to specification.

Thank you

**[XRUSH] RESPONSE:**

Corrected

**INITIALS:**

PS

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

10/07/969

WIRELESS PRIVATE BRANCH EXCHANGE (WPBX) AND  
COMMUNICATING BETWEEN MOBILE UNITS AND BASE STATIONS

BY:

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This Application is a Divisional of US Patent Application No. 09/784,109 filed  
February 16, 2001, currently pending.

TECHNICAL FIELD OF THE INVENTION

The invention relates to wireless communications systems having a plurality of  
mobile units (devices) having the ability to connect short-range with a plurality of Base  
Stations, and techniques for handing off a mobile unit from one Base Station to another  
when the mobile unit moves between areas of coverage of neighboring Base Stations.

BACKGROUND OF THE INVENTION

The effective range of a mobile device, such as a cordless handset, from its Base  
Station is limited by its transmission power and by the receiver sensitivity of the mobile  
device and the Base Station. Wireless Private Branch Exchange (WPBX) systems  
address this limitation by using more than one Base Station (BS). The area that a Base  
Station covers is called a cell. In the main, hereinafter, mobile units (devices) that are  
cordless (telephone) handsets are discussed.

In a WPBX, the Base Stations are interconnected in order to allow handsets that  
are in different cells to communicate with one another. When a handset moves from one  
cell to another during a call, the handoff (or handover) of communication from one Base  
Station to another Base Station enables uninterrupted communication. A central unit that  
is usually called the "Switch" is connected to all the Base Stations. The Switch controls  
the operation of the system, routes the call to Base Stations and to Gateways, which  
connect the WPBX to external communication systems. The transmission power of a  
cordless handset in the WPBX is usually lower than the transmission power of the  
handset of a standard cellular system, which results in a WPBX for cordless handsets

which claims benefit of provisional 60/195,219 04/07/00  
and claims benefit of provisional 60/208,306 04/01/00

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